

Bonus Homework 2

As with the previous extra homework, there is no penalty if you do not turn it in, and no partial credit. If answered correctly with correct justification the question is worth 1% extra credit.

1. Does there exist a function $f : \mathbb{Q} \cap (0, \infty) \rightarrow \mathbb{R}$ such that $\lim_{x \rightarrow p} f(x) = \infty$ for all positive rational numbers p ?